Adsorption and reaction of carbon dioxide on pure and alkali-metal promoted cold-deposited copper films
M. Pohl and A. Otto 125

Low coverage structure of tetramethyltin adsorbed on graphite
B. Asmussen, M. Strzelczyk, W. Press and J.Z. Larese 138

Thermal desorption of hydrogen from the diamond C(100) surface
C. Su and J.-C. Lin 149

Effects of electrolytes and polarity of organic liquids on the coalescence of droplets at aqueous-organic interfaces
C.-T. Chen, J.-R. Maa, Y.-M. Yang and C.-H. Chang 167

Submonolayer island formation and the onset of multilayer growth during Ag/Ag(100) homoepitaxy
C.-M. Zhang, M.C. Bartelt, J.-M. Wen, C.J. Jenks, J.W. Evans and P.A. Thiel 178

Infrared spectroscopy and photodesorption of condensed phase ammonia
G.J. Szulczewski and J.M. White 194

Pooling analysis of scanning probe microscopy images
P. Dooley and S.L. Bernasek 206

Formation of ordered nanocluster arrays by self-assembly on nanopatterned Si(100) surfaces
T.A. Winningham, H.P. Gillis, D.A. Choutov, K.P. Martin, J.T. Moore and K. Douglas 221

Regular defects on the Si(111)-(7 × 7) surface studied by scanning tunneling microscopy
H.Q. Yang, J.N. Gao, Y.F. Zhao, Z.Q. Xue and S.J. Pang 229

Cu films on a Zn-terminated ZnO(0001) surface: structure and electronic properties
J. Yoshihara, J.M. Campbell and C.T. Campbell 235

Indium on Si(001): growth beyond the first atomic layer
M.M.R. Evans, J.C. Glueckstein and J. Nogami 246

Growth of Ge–Si(111) epitaxial layers: intermixing, strain, relaxation and island formation
N. Motta, A. Sgarlata, R. Calarco, Q. Nguyen, J. Castro Cal, F. Patella, A. Balzarotti and M. De Crescenzi 254

Domain structure, segregation and morphology of the $Pt_3Sn(111)$ surface
W.C.A.N. Ceelen, A.W. Denier van der Gon, M.A. Reijme, H.H. Brongersma, I. Spolveri, A. Atrei and U. Bardi 264

Water adsorption on NaCl(100): a quantum ab-initio cluster calculation
A. Allouche 279

Vibrational HREELS study of tris-neopentylgallium adsorbed on GaAs(100); identification of surface species and electron excitation mechanisms
C.P.A. Mulcahy, J. Eggeling, G. Horley, A.C. Jones, P. O'Brien and T.S. Jones 294

Scanning tunneling microscopy and molecular orbital calculation of organic molecules adsorbed on the Si(100)2 × 1 surface
M. Kasaya, H. Tabata and T. Kawai 302

Surface preparation of Si substrates for epitaxial growth
K. Miki, K. Sakamoto and T. Sakamoto 312

Author index 329

Subject index 332

Materials index 337